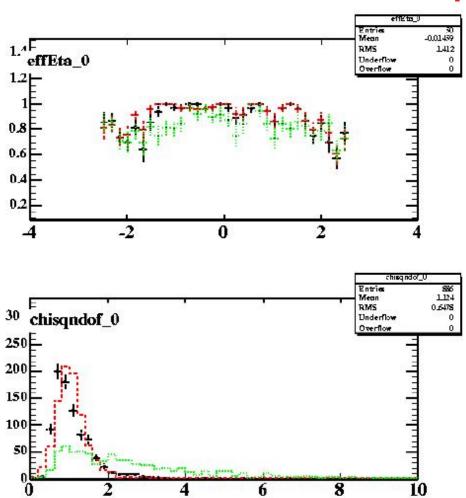
## Electron Validation in 11.0.3

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- Running InDetRecExample on 11.0.3 digit samples with 11.0.3 software release
- Data Samples looked at(11.0.3): electron\_e100
- Conclusions:
  - Some features of new tracking in 11.0.3 still exist (low efficiency and bad chisq, compared to other xkalman and iPat).
  - Other distributions of track parameters and residuals seem reasonable.
  - Track Truth matching revisited: based on majority charges (default) vs popularity among the hits.

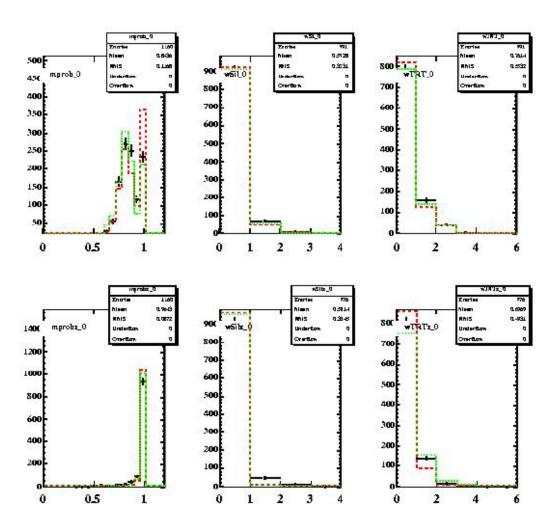
## **Electron Eff vs Eta and Chisq**



- Black:xKalman; Red: iPat; Green: NewTracking
- ullet Newtracking seems 10% lower than others and Chisq/ndof has long tails.



## Track Truth Matching Revisited



- Top row based on charge: probability, wrong pix+sct, wrong trt
- Bottom row based popularity: probability, wrong pix+sct, wrong trt

